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TITLE: LIQUID CRYSTAL DISPLAY DEVICE

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INVENTOR-INFORMATION:

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ABSTRACT:

PROBLEM TO BE SOLVED: To eliminate display chrominance nonuniformity due to the change of surrounding temperature in use from an ordinary temperature atmosphere to a high temperature atmosphere.

SOLUTION: A cell gap, being thickness of a liquid crystal layer, is designed to gradually get thicker from the central part of the displaying region toward the end part of the displaying region to prevent display chrominance nonuniformity due to differences in thermal expansion of materials constituting a liquid crystal display device at the upper limit temperature of its operational temperature range within a range in which no display chrominance nonuniformity appears under ordinary temperature surroundings. Expressed in another way, an insulating substrate 1 has a conical shape and a pair of the insulating

substrates 1 is stuck together so as to place the conical projecting parts opposite to each other. As regards the liquid crystal display device formed in this way, in the case the operational surrounding temperature is raised, a difference between the cell gap of the central part of the displaying region of a liquid crystal cell 6 and that of its end part is kept small because the cell gap of the liquid crystal cell 6 is formed so as to be thin at the central part of the displaying region under ordinary temperature.

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